

ABSTRACT

The present invention provides compositions and methods of modulating or regulating eukaryotic gene expression through the controlled or regulated expression of polynucleotide constructs that encode siRNA or other desired exogenous nucleic acids or proteins. Such constructs, and additional elements of the system may be transfected into the cells of interest and the expression of the siRNA, and hence the expression of the target gene of the siRNA, may be controlled through the administration of a compound to the cell, such as a small molecule or drug. Lentivirus vectors are employed in some embodiments of the invention including the generation of conditional knockdown animals.